

DAILY FIELD ACTIVITY REPORT

PROJECT NAME: Pre-Remedial Design Investigation and Baseline Sampling, Portland Harbor Superfund Site

DATE: July 1, 2018	WEATHER: Overcast, High ~75 degrees F
Personnel and Visitors Onsite: Research vessel Cayuse – <u>CDM Smith</u> : Mary Lou Fox; <u>AECOM</u> : Mark Taucher; <u>AECOM</u> : <u>Geosyntec</u> : Alison Clemens; <u>Gravity Marine</u> : Mike Duffield, Maggie McKeon Research vessel Methow – <u>CDM Smith</u> : Libby Miner; <u>AECOM</u> : Stu Holmes <u>Geosyntec</u> : Erin Dunbar; <u>Gravity Marine</u> : Pete Jenkins, John Schaefer	
Planned Activity: <ul style="list-style-type: none"> Collect surface sediment samples at stratified random locations on upriver reaches. 	
Activity Completed: A tailgate safety meeting was led by AECOM. Topics discussed during the safety meeting included keeping alert, particularly as weekend near 4 th of July holiday approach and boat safety. Mary Lou Fox performed oversight of surface sediment sampling from 08:00 to 16:50 on board the Cayuse. Specific activities completed by the AECOM/Geosyntec team, with vessel support from Gravity Marine, are as follows: <ul style="list-style-type: none"> Position check at PH-2 indicated that the vessel GPS was reading within 1.1 meter of the PH-2 survey coordinates, meeting the 1-2 m accuracy specification in the FSP. 3-point composite surface sediment samples were collected from 4 stratified random sample (SRS) locations from approximately RM 16.25 to RM 17.1, upriver of the site as summarized below. Activities included decontamination of sampling equipment using Alconox and deionized/distilled water and housekeeping of the sampling area. A field duplicate and a split sample (EPA) were collected at the SG-B461 location MS/MSD volume was collected at the SG-B457 location. Libby Miner performed oversight of surface sediment sampling from 08:00 to 16:58 on board the Methow. Specific activities completed by the AECOM/Geosyntec team, with vessel support from Gravity Marine, are as follows: <ul style="list-style-type: none"> Position check at PH-2 indicated that the vessel GPS was reading within 1.1 meter of the PH-2 survey coordinates, meeting the 1-2 m accuracy specification in the FSP. 3-point composite surface sediment samples were collected from 4 SRS locations from approximately RM 14.5 to RM 16, upriver of the site as summarized below. Activities included decontamination of sampling equipment using Alconox and deionized/distilled water and housekeeping of the sampling area. 	
Status of Schedule & Priority Work: <ul style="list-style-type: none"> Sampling will continue into next week until the 4th of July holiday on the Cayuse and Methow. Remaining sample locations include some blocked or attempted locations that could not be sampled at the time, and locations on private property with none or recently procured access agreements and the remaining upriver locations. Sampling on private property locations will continue at locations with property access agreements. 	
Issues/Concerns/Resolutions (include work performed that was not planned or anticipated): At location SG-B458, rocks and/or sticks were caught in the sampler jaws for the first five grabs. Probing the river bottom at 25-foot intervals was performed parallel to the shoreline in 3 locations. All probing results indicated hard sand. After the third probe, the site was abandoned due to heavy recreational use of the water in the area with many paddleboarders, kayakers, and people and dogs playing in the water. At location SG-B457 the initial grab had only 25% fines measured in the field. The river bottom was probed was just within the 50-foot radius and the results suggested soft material. A second grab was attempted at the location and yielded 55% fines measured in the field. A three-point composite was successfully completed in the 50 foot-radius of SG-B457. At approximately 15:25, an engine on the Cayuse began to overheat. At 15:45, the PreRD Group called a stop to work for the day was due to the engine overheating issue and the heavy recreational activities on the river near the sampling sites. The Methow was at an adjacent site and also stopped work due to the recreational activities near the sampling sites.	
Samples Collected, Measurements Made, Photographs: (List Locations, Matrix & Sample type): On the Cayuse, sediment samples were collected at the following sampling locations: <ul style="list-style-type: none"> PDI-SG-B461 – RM 17.1 E, within 25-FT radius, soft silt with trace fine sands PDI-SG-B460 – RM 17.1 W within 25-FT radius, very dark brown soft silt with trace organics PDI-SG-B459 – RM 16.6 E, within 50-FT radius, very soft silt with trace fine sands and trace organics PDI-SG-B457 – RM 16.1 E, within 50-FT radius, very dark grey silt, slightly clayey, somewhat blocky 	

On the Cayuse, sediment samples were collected at the following sampling locations:

- PDI-SG-B450 – RM 15 W, within 25-FT radius, stiff clayey silt
- PDI-SG-B453 – RM 15.5 M, within 25-FT radius, soft silt
- PDI-SG-B454 – RM 15.5 W, within 25-FT radius, soft silt
- PDI-SG-B452 – RM 14.5 W, within 50-FT radius, fine sandy silt

Wet sieving was performed on sediment from the first grab at each location to confirm that the sediment 35% or greater fines.

Note: Sediment descriptions are simplified and AECOM/Geosyntec provided more detailed sediment descriptions in their sampling notes. Trace components are not included in simplified descriptions unless related to sheen or biota.

Photographs of work were taken throughout the day on board the Cayuse and provided to EPA via email. Additional photos were taken and archived with a description included in the photolog Excel spreadsheet, which are maintained electronically in the ProjectWise project folder.

Borings Completed (Include total footage drilled for each boring):

None

Wastes Generated and How Handled:

- Excess sediment and debris from today's sampling activities was rinsed back into the river per the FSP. No significant sheen was observed today.
- Disposable gloves, paper towels, and other general trash was containerized in a trash bag and removed daily for disposal to a municipal waste management dumpster.

Health and Safety Issues, Equipment Needs, Staffing:

None

Signature: Mary Lou Fox, Libby Miner

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